PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicar F-1	n's or agent's file reference	FOR FURTHER A	RTHER ACTION See Form PCT/IPEA/416							
Internati	onal application No.	International filing da	ite (day/month/year)	Priority date (day/month/year)						
PCT.	/JP2004/007515	01.06.200	4	09.06.2003						
International Patent Classification (IPC) or national classification and IPC										
Applicar	nt	***************************************								
JSR	CORPORATION									
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2.	This REPORT consists of a to	tal of 5	sheets, including	ng this cover sheet.						
3.	This report is also accompanie	d by ANNEXES, comprising								
İ	(ant and to the International Bi		sheets, as follows:						
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which	supersede earlier sheets, but	which this Authority cor	nsiders contain an amendment that goes beyond I in item 4 of Box No. I and the Supplemental						
	Box.	e in the international applicat	ion as med, as malcaled	in hem 4 of Box No. 1 and the Supplemental						
	b. (sent to the Interna	<i>utional Bureau only)</i> a total of	(indicate type and number	er of electronic carrier(s))						
	o	anomas Dareda omy) a total of	(maneme type and number	or of electronic carrid(s))						
				, containing a sequence listing and/or tables						
		omputer readable form only, a dministrative Instructions).	as indicated in the Supple	emental Box Relating to Sequence Listing (see						
4.	This report contains indication	ns relating to the following iter	ms:							
	Box No. I Basi	s of the report								
	Box No. II Prior	rity								
	Box No. III Non	tive step and industrial applicability								
	Box No. IV Lack	c of unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box No. VI Cert	ain documents cited								
	Box No. VII Certain defects in the international application									
	Box No. VIII Certain observations on the international application									
Date of submission of the demand Date of completion of this report										
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Name and mailing address of the IPEA/JP			Authorized officer							
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Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/007515

Вох	No. I	Basis of the report							
1.		n regard to the language, this report is based on the internation cated under this item.	nal application in the language in which it was filed, unless otherwise						
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:								
		international search (Rule 12.3 and 23.1(b))							
		publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/o							
2.	With		report is based on (replacement sheets which have been furnished to the						
2.	recei	iving Office in response to an invitation under Article 14 are report):	referred to in this report as "originally filed" and are not annexed to						
		the international application as originally filed/furnished							
	\boxtimes	the description:							
		pages1-43	as originally filed/furnished						
		pages*	received by this Authority on						
		pages*	received by this Authority on						
	\boxtimes	the claims:							
		nos. 2-10	as originally filed/furnished						
		nos.*	as amended (together with any statement) under Article 19						
		nos.* <u>1</u>	received by this Authority on 07.04.2005						
		nos.*	received by this Authority on						
	\bowtie	the drawings:							
		sheets fig. 1-18	as originally filed/furnished						
		sheets*	received by this Authority on						
		sheets*	received by this Authority on						
	\sqcup	a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.						
3.	Ш	The amendments have resulted in the cancellation of:							
		the description, pages							
		the claims, nos.	the claims, nos.						
		the drawings, sheets/figs	the drawings, sheets/figs						
		the sequence listing (specify):	the sequence listing (specify):						
		any table(s) related to sequence listing (specify):	any table(s) related to sequence listing (specify):						
4.	Ш		report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
		the description, pages	the description, pages						
		the claims, nos.	the claims, nos.						
		the drawings, sheets/figs	the drawings, sheets/figs						
		the sequence listing (specify):	the sequence listing (specify):						
		any table(s) related to sequence listing (specify):							
*	If ite	m 4 applies, some or all of those sheets may be marked "supe	rseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/007515

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (I	N)	Claims	1-10	YES
			Claims		NO
	Inventive	step (IS)	Claims		YES
			Claims	1-10	NO
	Industrial	applicability (IA)	Claims	1-10	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 2002-246428 A (JSR Corp.), 30 August 2002, entire text, all drawings & WO 2002/047149

A1

Document 2: JP 2003-077962 A (JSR Corp.), 14 March 2003, paragraphs [0039] to [0041] and [0077], and fig. 15 to 19 (Family: none)

The inventions set forth in claims 1 to 10 do not involve an inventive step in the light of documents 1 to 2.

(1) Claims 1 to 3 and 8 to 10

Document 1 discloses inventions that are related to an anisotropic conductive connector for electrically connecting the various inspection electrodes and the various terminal electrodes, which is disposed between the inspecting circuit board and the connecting circuit board, wherein said anisotropic conductive connector is configured from an elastic anisotropic conduction film, which comprises a plurality of connecting conduction units that extend in the thickness direction at positions that are separated from one another along the surface direction and an insulation unit that is formed between

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the connecting conduction units, and an insulation sheet member, which supports the elastic anisotropic conduction film in question; the aforementioned insulation sheet material is configured from a material that has a linear thermal expansion coefficient of 3 X 10^{-6} to 3 X 10^{-5} K⁻¹; the connecting conduction units of the aforementioned elastic anisotropic conduction film are configured by densely filling magnetic conductive particles with a number average particle diameter of 30 to 150 μ m into an elastic polymer substance; said conductive particles have a coating layer of a noble metal with a thickness of 20 nm or more formed upon the surface thereof; said connecting conduction units have a durometer hardness of 15 to 45; and the electrical resistance between adjacent connecting conduction units is 10 M Ω or more.

Document 2 discloses an anisotropic conductive connector that is configured from an elastic anisotropic conduction film and a frame plate for supporting the elastic anisotropic conduction film, wherein said frame plate is configured from a metal material.

The anisotropic conductive connector that is disclosed in document 1 and the anisotropic conductive connector that is disclosed in document 2 are both related to a common issue, i.e. controlling the thermal expansion of the anisotropic conductive connector in order to stably maintain a favorable electrical connection state; therefore, it would have been easy for a person skilled in the art to conceive of substituting the frame plate that is configured from a metal material, which is disclosed in document 2, for the insulating sheet in the anisotropic conductive sheet that is disclosed in document 1.

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In addition, configuring so that the linear thermal expansion coefficient of the frame plate, the number average particle diameter of the conductive particles and the durometer hardness of the connecting conduction units are 3 \times 10⁻⁶ to 2 \times 10⁻⁵ K⁻¹, 20 to 80 μm and 10 to 35, respectively, is merely a design matter, and there cannot be found to be any significant action or effect that results from selecting the numerical ranges in question.

(2) Claims 4 to 7

Configuring so that the conditions for carrying out tests upon the anisotropic conductive sheet which are disclosed in claims 3 to 6 of document 1 conform to the numerical ranges that are set forth in claims 4 to 7 of the present application is merely a design matter. The conditions for carrying out tests upon the anisotropic conductive sheet should be set so as to match actual usage conditions, as appropriate, and there cannot be found to be any significant action or effect that results from selecting the numerical ranges that are set forth in claims 4 to 7 of the present application.